

PERKSHYAN, O.K.

Duodenal ulcer of unknown etiology in a 4 1/2-months-old child.
Pediatrics no.2:88 Apr '54. (MLBA 7:6)

1. Iz Chelyabinskogo gosudarstvennogo meditsinskogo instituta.
(DUODENUM--ULCERS)

YUGOSLAVIA

BACIC, M.; JERKOVIC, M.; PERKUCIN, R.; and LUCASIC, M., of the Institute for Preventive Veterinary Medicine (Institut za Preventivnu Veterinarsku Medicinu) in Belgrade and the Veterinary Institute (Veterinarski Institut) in Novi Sad.

"Study of the Optimal Period for the Insemination of Cows after Calving."

Belgrade, Veterinarski Glasnik, Vol 17, No 9, 1963, pp 783-787.

Abstract: [Authors' English summary modified] The authors review the literature on their subject and find two opposing viewpoints represented, viz., that cows should be inseminated during the first month after calving and that insemination should take place no earlier than 45 days after calving in the case of medium-yield cows and between 60 and 90 days after calving in the case of more productive cows (more than 4000 liters of milk). The authors' experimental work with a herd of 600 domestic cows showed that the largest single monthly proportion of the cows displayed sexual heat, and were therefore inseminated, between 31 and 60 days after calving (42.3 percent as against 23.8 percent between 61 and 90 days after calving). However, the highest rate of conception from the first insemination (61.8 percent) and from all six inseminations (96.7 percent) occurred in the cows inseminated between 61 and 90 days after calving, which would thus appear to be the optimal period for insemination after calving. The rate of conception was lowest in cows inseminated within 30 days. One table, 16 refs. (half Soviet, half West).

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110002-0"

PERKUCIN, R.

Porodnijske Ulinic, Vet. Fac. in Beograd

Vet Glasnik 6:122-129 Feb. 1952

YEVTEYEV, V.I.; PERKUL', I.M.

Hydraulic nailing head unit for knocking up boxes. Trudy
NIL Tary no.4:105-108 '60. (MIRA 14:12)
(Box making)

PERKUL', I.M.; YEVTEYEV, V.I.

Semiautomatic line for knocking up boxes. Trudy NIL Tary no.4:5-
15 '60. (MIRA 14:12)

(Box making)

PERKUL', M.M., inzh.

Method of preliminary economic evaluation of coal deposits.
Izv. vys. ucheb. zav.; gor. zhur. no.8:69-75 '61. (MIRA 15:5)

1. Kemerovskiy gornyy institut. Rekomendovana kafedroy
ekonomiki i organizatsii proizvodstva Kemerovskogo gornogo
instituta.

(Kuznetsk Basin--Coal mines and mining--Valuation)

PERKUL', M.

Technical education in an industrial technical school.
Prof.-tekh. obr. 14 no.1:27 Ja '57.

(MLRA 10:2)

1. Prepodavatel' Kemerovskogo industrial'nogo tekhnikuma.
(Kemerovo--Technical education)

PERKUL', M.

Visual aids for the study of mining. Prof.-tekhn. obr. 11 no.8:24-25
N '54. (MLBA 8:1)

1. Prepodavatel' Kemerovskogo industrial'nogo tekhnika Glavnogo
upravleniya trudovykh rezervov.
(Mining engineering--Study and teaching)

PERKUL', M.M.

Problems and methods in economic evaluation of coal deposits.
Izv. Sib. otd. AN SSSR no.3:3-11 '62. (MIRA 17:7)

1. Kemerovskiy gornyy institut.

ZHURAVLEV, A.M.; PERKUL', M.M.

Compiling economic geology maps of the Kuznetsk Basin. Ugol' 39
no.1:58-60 Ja 64. (MIRA 17:3)

1. Kombinat ugol'nykh predpriyatiy Kuznetskogo kamennougol'nogo
basseyna (for Zhuravlev). 2. Gomerovskiy gornyy institut (for
Perkul').

PERKUL', M.M., inzh.; PORSHNEV, V.M., inzh.; POPOV, V.E., inzh.

Mining and ore-dressing combines for the extraction of coking coal.
Izv. vys. ucheb. zav.; gor. zhur. 6 no.9:63-67 '63.

(MIRA 17:1)

1. Kemerovskiy gornyy institut. Rekomendovana kafedroy ekonomiki
i organizatsii proizvodstva.

PERKUL', M.M.

Economic appraisal of coal deposits. Ugol' 34 no.2:54-56 P '59.

(MIRA 12:4)

1. Kemerovskiy gornyy institut.
(Coal geology)

(Coal--Costs)

PERKUTA, M.Ya., fel'dsher-akusherka (selo Leonovka Chernigovskoy oblasti)

Work practice of a feldsher-midwife station in prevention of
poisoning by toxic chemicals. Fel'd. i akush. 22 no.8:52-53 Ag '57.
(CHEMICALS--SAFETY MEASURES) (MIRA 10:12)

PERLEY, Ye.M.
PERLEY, Ye.M., inzh; RUKAVTSO', A.M., inzh.

Load capacity of piles sunk by the vibration method. Nov.tekh. i
pered. op. v stroi. 19 no.12:14-17 D '57. (MIRA 11:1)
(Concret, piling)

Pepl, K.

(the incorporation of radioactive amino acids and amylase synthesis in pancreatic tissue in vitro. T. Garik, K. Pepl, M. T. Szabo, A. Ullmann, and F. B. Straub (Univ. Budapest). *Acta Physiol. Acad. Sci. Hung.* 11, No. 1, 23-9 (1957) (in German).--Radioactive glycine and tyrosine are incorporated into tissue slices of pig-pancreas in parallel with synthesis of amylase. The amylase synthesis in homogenates, mitochondrial fractions, and aq. ext. of acetone-dry pancreas powder is not connected with the incorporation of these amino acids. O. C. Ringer.

PERL K. and BIRG G.

Chem. Inst., Med. Univ., Budapest. *Eine neue Methode zur Bestimmung der Eiweisskonzentration
des Muskels. A new method for determination of the protein concentration of muscle
ACTA PHYSIOL. ACAD. SCI. HUNG. (Budapest) 1954, 5 suppl. (12-20)

SO: Excerpt Medica Section 11 Vol 7 N. 12

PERL, V.

"Investigation of Distortions of TV Signal in Radio Transmitters." *Sov. Tech. Sci., Leningrad Electrical Engineering Inst of Communications* (semi Prof. M. A. Bench-Brayevich, *Min Communications USSR, Leningrad, 1955. (XL, No 10, Mar 55)*

SO: Sum. No. 610, 19 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16)

PERL, V

Xylolite paving tiles. p. 232. POZEMNI STAVBY. (Ministerstvo stavebnictví)
Praha. Vol. 3, no. 6, June 1955.

SOURCE: East European Accessions list (EEAL), Library of Congress,
Vol. 4, No. 12, December 1955.

PERLA, M.; CERNOSEK, J.

Photoelastometric tensometers. Vysl ban vyzk -3:50 74 '64.

1. Institute of Mining, Czechoslovak Academy of Sciences, Prague.

ACC NR: AT7002099

SOURCE CODE: UR/0000/66/000/000/0126/0133

AUTHOR: Perla, M. (Czechoslovakia)

ORG: none

TITLE: Epoxy resins for layer models

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskomu metodu issledovaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy konferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 126-133

TOPIC TAGS: photoelasticity, refractory coating, resin, surface active coating

ABSTRACT: Physical and mechanical properties of optically active CHS110 epoxy resin used for making multilayer models for photoelastic stress analysis are presented. The author first describes the desirable qualities of coating materials for two-dimensional and three-dimensional models. Then, a systematic presentation is made on how the properties of CHS110 epoxy resin are affected by the amount additive phthalic and maleic anhydride hardeners. The properties in question are: modulus of elasticity, optical sensitivity, coefficient of linear expansion, hardening temperature, creep, and machinability. Orig. art. has: 9 figures.

SUB CODE: 11/ SUBM DATE: 14Jun66

Card 1/1

PERLA M.

PHASE I BOOK EXPLOITATION

CZECH/5662

Milbauer, Miloš, Engineer, and Miroslav Perla, Engineer.

Fotoelasticimetrie a příklady jejího použití (Photoelasticity and Examples of Its Application) Prague, Nakl. ČSAV, 1961. 504 p. 1300 copies printed.

Sponsoring Agency: Československá akademie věd.

Scientific Ed.: Václav Tesař, Professor, Engineer, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences; Reviewer: Rudolf Plechata, Doctor of Natural Sciences; Ed. of Publishing House: Lidmila Jánková; Tech. Ed.: František Končický.

PURPOSE: This book is intended for scientific research workers, engineers, and technicians interested in the applications of photoelastic methods in the determination of the strength of materials and in the determination of strains and stresses in structural parts and constructions.

Card 1/14

Photoelasticity and Examples of Its Application

CZECH/5662

COVERAGE: The book is intended to complement a previous publication, Foto-elastometrické přístroje a měřicí metody (Photoelastic Structures and Measurement Methods). The authors discuss the various photoelastic methods, the grid and screen methods, the freezing technique, the method using models composed of materials having different optical sensitivity but the same modulus of elasticity, the method of freezing stresses in models, and the scattered light method based on the Tyndall effect. In this section of the book, the authors drew on experience acquired at the Conference on Photoelasticity organized by Leningradskiy Universitet imeni A. A. Zhdanova (Leningrad University imeni A. A. Zhdanov) and the Leningradskiy otdel Nauchno-tekhnicheskogo obshchestva stroitel'noy promyshlennosti (Leningrad Section of the Scientific Technical Society of the Construction Industry) at Leningrad in June 1958. Experimental procedure in the case where it is not possible to observe the model directly from light passing through it is discussed, as well as photoelasticity measurements, including measurement of forces with dynamometers, measurement of dynamic effects on structures and on photoelasticity measurements

Card 2/14

Photoelasticity and Examples of Its Application

CZECH/5662

on models. The authors thank Graduate Chemist E. Kučera, for his help in preparing Chapter A, Part IV; and Professor Doctor V. Tesar, Engineer. There are approximately 580 references: about 180 Soviet and the rest Czech, English, German, French, Italian, and Spanish.

TABLE OF CONTENTS:

Preface	5
Table of Contents	9
I. Methods Complementing Photoelasticity Measurement	
1. Introduction	13
2. The screen method	14
3. The mechanical screen method	29
4. Electric analoging	31
5. Freezing of plane models	33

Card 3/14

PERLA, M., inz. CSc.; CERNOSEK, Jan, inz.

Seminar on photoelastometry. Stroj cas 15 no. 3: 312-
313 '64.

PERLA, M.

23(5); 28(5); 18(7) PHASE I BOOK EXPLOITATION CZECH/3526

Milbauer, Miloš, Engineer, and Miroslav Perla, Engineer, Candidate
of Technical Sciences

Fotoelasticimetrické přístroje a měřicí metody (Photoelastic
Apparatus and Methods of Measurement) Prague, Naklad. CAV, 1959.
471 p. (Series: Česka matice technická, roč. 64, číslo 336).
2,000 copies printed.

Reviewer: Rudolf Plechata, Doctor of Natural Sciences; Scientific
Ed.: Václav Tesař, Engineer, Professor, Corresponding Member,
Czech Academy of Sciences; Ed.: Ladislav Hrdina; Tech. Ed.:
František Končický.

PURPOSE: The book is intended for scientific research workers and
students of engineering schools.

COVERAGE: The book contains the fundamentals of the theory of
elasticity necessary for the solution of problems of the state
of plane stress. The basic optical principles of photoelastic

Card 1/12

Photoelastic Apparatus (Cont.)

CZECH/3526

analysis are also presented in a chapter written by Rudolf Plechata, Engineer, Doctor of Natural Sciences. The photoelastic analysis of the state of plane stress is discussed in detail. The methods of calculating the principal stresses from measured values (from the sum and difference of principal stresses) and their direct measurement are examined. Currently used methods are evaluated and reviewed, and the possibility of their use for solving problems of plane state of stress is set out. Ordinary polarization devices and special instruments for photoelastic work are described. The second volume of this work containing information on photoelastic materials and the methods of three-dimensional photoelasticity is in preparation. The authors thank Doctor Bedřich Hacar, Professor, Engineer, Corresponding Member of the Czechoslovak Academy of Sciences and winner of the state award, and Doctor Václav Tesar, Professor, Engineer, Corresponding Member of the Czechoslovak Academy of Sciences, and R. Plechata. There are 938 references: 561 English, 143 German, 95 French, 81 Russian (listed separately), 21 Czech, 16 Italian, 14 Spanish, 5 Polish, 1 Dutch and 1 Swedish.

Card 2/12

Photoelastic Apparatus (Cont.)

CZECH/3526

TABLE OF CONTENTS:

Preface	5
Table of Contents	9
Introduction	13
Symbols used in schematic diagram of photoelastic apparatus	21
Symbols used in text	23
I. Fundamentals of the Theory of Elasticity	25
1. Introduction	26
2. Stress in a point of a body	34
3. Strain in a point of a body	46
4. Stress-strain relationship	49
5. Differential equations of equilibrium	51
a. Orthogonal Cartesian coordinates	
b. Differential equilibrium equations in polar coordinates	52

Card 3/12

Photoelastic Apparatus (Cont.)

CZECH/3526

c. Differential equilibrium equations in isostatic coordinates [drawn along zero shear stresses]	53
d. Differential equilibrium equations in coordinates drawn along maximum shear stresses	54
6. Boundary conditions	55
7. Equation of compatibility	56
8. Review and use of derived formulas	58
II. Fundamentals of the Theory of Photoelasticity	
1. Double refraction model	63
2. Basic applied concepts from the theory of elasticity	65
3. Basic applied concepts from the theory of light	66
4. Basic applied concepts from the optics of crystals	69
5. Basic equations of photoelasticity	73
6. Relation of elasticity and optics of crystals	77
7. Geometrical representation of polarized light	83
8. The principle of photoelasticity	88

Card 4/12

Photoelastic Apparatus (Cont.)

CZECH/3526

III. Photoelastic Apparatus and Models

A. Photoelastic apparatus

1. Basic component parts
 - a. Source of light 95
 - b. Polarizer 96
 - c. Analyzer 96
 - d. Quarter-wave plates 98
2. Polarizing devices and regular polarizers with stationary polarizing plates 98
3. Photoelastic apparatus for reflected light 104
4. Photoelastic apparatus for directed reflected light (autocollimation apparatus) 109
5. Photoelastic apparatus with light passage 114
6. Photoelastic apparatus with passage of directed light 128
7. Device for photographing polarization phenomena 141
8. Arrangement of polarizing apparatus 149

B. Photoelastic Models

1. Conditions of the physical similarity of models 156
2. Selection of material for a model 159

Card 5/12

Photoelastic Apparatus (Cont.)

CZECH/3526

3. Making plane models	166
4. Application of forces [to the model]	169
IV. Plane Photoelasticity	
A. Derivation of basic formulas for plane photoelasticity	
B. Determining the direction of principal stresses	
1. Information for graphical determination of the direction of principal stresses	179
2. Graphical construction of directions of principal stresses from isoclinics	184
3. Photographic determination of the direction of principal stresses	193
4. Determining the direction of principal stresses by brittle lacquer method	196
C. Measurement of the Difference of Principal Stresses	
1. Derivation of basic formulas for double refraction	204
a. Two polarizers with planes of polarization forming an angle $\varphi = \varphi_0$	209
b. Crossed polarizers with one plate between them	210

Card 6/12

Photoelastic Apparatus (Cont.)

CZECH/3526

- c. Crossed polarizers with one plate and phase shift $\xi_1 = \frac{\pi}{2}$ and angle of polarization $\alpha_1 = \frac{\pi}{4}$ 211
- d. Crossed polarizers with two quarter-wave plates 213
- e. Parallel polarizers with two quarter-wave plates 214
- f. Parallel polarizers with two quarter-wave plates having parallel optical axes 215
- g. Crossed polarizers with two quarter-wave plates and a model 216
- h. Arrangement for goniometric compensation 221
- i. Arrangement for goniometric compensation with one quarter-wave plate 224
- j. Table of arrangement of polarizers 227
- 2. Determination of the difference of principal stresses from isochromatics 228
- a. Stresses in bars and strips 240
- α. Bars and strips under pure tension or compression 245
- β. Pure flexure of bars 249
- γ. Bar under concentrated force 252
- b. Loading of a semiplane by concentrated pressure

Card 7/12

Photoelastic Apparatus (Cont.)

CZECH/3526

3. Determination of the difference of the principal stresses by compensation methods	260
a. Compensation by tension, compression and flexure bars	261
b. Compensators with lasting refraction	273
α. Babinet's compensator	273
β. Tamin-Babinet compensator	274
γ. Soleil-Babinet (or Bravais) compensator	275
δ. Ehringhaus' compensator	277
c. Determination of the difference of the principal stresses by goniometric compensation	278
d. Compensation with one quarter-wave plate	289
e. Determination of differences of the principal stresses by color matching	289
D. Measurement of the Sum of Principal Stresses	292
1. General principle	
2. Calculation of the sum of principal stresses by Neuber's grapho-analytical method	294

Card 8/12

Photoelastic Apparatus (Cont.)

CZECH/3526

- | | |
|--|-----|
| 3. Determination of the sum of principal stresses by mechanical devices | 301 |
| a. Mechanico-optical (interferential) apparatus | 301 |
| α. Mesnager's mechanico-optical (interferential) lateral extensometer | 305 |
| β. Vose's mechanico-optical interferometer | 309 |
| b. Mechanical apparatus | 311 |
| α. Coker's lateral extensometer | 311 |
| β. Extensometer with Huggenberger tensometer | 313 |
| c. Mechanico-electrical apparatus | 314 |
| d. Mechanico-pneumatic apparatus | 317 |
| 4. Determination of the sum of principal stresses by purely optical methods | 319 |
| a. Favre's interferometer | 320 |
| b. Fabry's silver-coated model | 324 |
| c. Tesar's lateral extensometry | 325 |
| 5. Determining the sum of principal stresses by the Prandtl membrane analogy | 334 |

Card 9/12

Photoelastic Apparatus (Cont.)

CZECH/3526

E. Determination of Single Principal Stresses	339
1. General principle	342
2. Determination of single principal stresses by numerical integration along the isostatics	342
a. Maxwell's method	348
b. Tesař's method	355
c. Coker's method	361
d. Filon's method	363
e. Várárhelyi's method	369
3. Determination of single principal stresses by graphical integration along the isostatics	369
a. Tesař's graphic separation of principal stresses	369
b. Coker's method	383
4. Direct calculation of single normal stresses	385
a. Calculation of normal stresses V_r and V_θ in polar coordinates	385
b. Calculation of normal stresses V_x and V_y in Cartesian coordinates	389
5. Optical determination of single principal stresses	394
a. Tesař's method of drilling a hole in the model	395
b. Solakian's method	402

Card 10/12

Photoelastic Apparatus (Cont.)

CZECH/3526

V. Valuation of Regular Photoelastic Methods

A. Review of the methods

1. Mesnager's method	405
2. Prandtl's method	407
3. Favre's method	408
4. Fabry's method	409
5. Tesar's lateral extensometric method	409
6. Neuber's method	410
7. Maxwell's calculation method	410
8. Tesar's calculation method	411
9. Coker's calculation method	411
10. Filon's calculation method	412
11. Várhelyi's method	412
12. Calculation of normal stresses in polar coordinates	412
13. Calculation of normal stresses in Cartesian coordinates	413
14. Tesar's graphical separation of principal stresses	414
15. Coker's graphical method	414

Card 11/12

Photoelastic Apparatus (Cont.)	CZECH/3526	
16. Tesar's method of drilling a hole in the model		415
17. Solokian's method		415
B. Use of photoelasticity and its application to real products		416
Bibliography		430
Author Index		467
Subject Index		469
AVAILABLE: Library of Congress		

Card 1.2/12

VK/mmh
5-13-60

PERLA, Miroslav, inz. CSc.; CERNOSEK, Jan, inz.

Second Seminar on Photoelastometry. Stroj cas 15 no. 5: ~~486-489~~
'64

PERIAC, Julius, inz.

Jaromir Obst; obituary. Drevo 18 no. 12: 443 D '63.

1. Predseda redakcnej rady casopisu Drevo.

PERLAC, Julius, inz.; RIM, Ondrej, inz.

Some problems of the long-term development of the woodworking industry in Czechoslovakia. Drevo 17 no.8:235-241 Ag '62.

1. Statny drevarsky vyskumny ustav, Bratislava.

PERLAC, Julius, inz.

Activity and some results of the State Woodworking Research Institute
in Bratislava. Drevo 17 no.9:259-264 S '62.

1. Riaditel Statneho drevarskeho vyskumneho ustavu, Bratislava.

PERLAKI, F.

No. 1 boring at Nagyvisnyo. p. 487

A MAGYAR ALLAMI FOLDTANI INTEZET EVI JELENTESE, Budapest, Hungary, 1955/56 (Published
1959)

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2, Feb. 1960
Uncl.

PERLAKI, Gyula (Sopron)

Track control by a new method. *Magy vasut* 8 no. 3:5 18 Ap '64.

PERLAKI, Gyula

Liquidation of unnecessary railroad crossings is economically justified. Magy vasut 8 no.5:4 2 Mr '64.

OSIPOVICH, L.; PERLAMUTROV, V.

Mathematical methods are the important means for improving economic work.
Fin. SSSR 37 no.10:22-27 0 '63.
(MIRA 17:2)

PERLAMITROV, V.

Several problems of establishing norms for working capital in
unfinished production. Fin. SSSR 37 no.5:48-52 My '63.

(MIRA 16:5)

(Capital)

(Industrial management)

PROBLEM, 1966.

Some properties of the internal structure of a partial
Archimedean space, 1966. *IZ VUZ*, 1972, no. 2:226-233, 21 figs.
RUS 1972.

1. Mainly, the properties of the structure in this
relation to the structure of the space.

PERLATOV, G.N. (Kaluga)

Some problems affecting the uniformity and expansion of space in
connection with Hilbert's axiom. Part 2. Izv. vys. ucheb. zav.;
mat no.4:140-149 '63. (MIRA 16:10)

PERLATOV, G.N. (Kaluga)

Some problems concerning the homogeneity and expansion of space in connection with Hilbert's axiomatics. Part.1. Izv.vys. ucheb. zav. mat. no.2:84-93 '63. (NIRA 16:3)
(Axioms) (Geometry, Modern)

Thermal treatment and cold hardening of silver copper alloys W. Broniowski and M. G. Moore, *Metall. Trans. A*, 1968, 1, 4010. The mech. properties of a Ag-Cu alloy of a tininess of 0.10 were studied in relation to the heat treatment M. G. Moore

PROCESSING AND PROPERTY DATA		TEMP AND STR. COEFFS	
<i>"On the Heat-Treatment and Cold-Working of Silver-Copper Alloys containing 90% of Silver. W. Brunkow and M. Pytkowski. <i>Arch. Sci. Tech. Ver. serie</i>, 1957, 6, 227-233).—(On account of the softness of the silver-copper alloy containing 90% silver, the 90% alloy is ordinarily used in the manufacture of table silver, this having a Brinell hardness in the neighborhood of 65. The annealed 90% alloy has a Brinell hardness of about 40, a tensile strength of about 24 kg./mm.², and an extension at fracture of 20%. Tempering at 750° C. causes copper to go into solid solution with the silver, but scarcely modifies the mechanical properties of the alloy. Subsequent aging at 350° C. for 30 minutes, however, increases the Brinell hardness to 95, the tensile strength to 36 kg./mm.², while the extension is about 19%. Whereas the 90% alloy requires immersion in dilute sulphuric acid, superficially to remove the yellowish tinge, the 94% alloy has a beautiful silver lustre which renders this process, which is in other respects detrimental to the alloy, unnecessary. The tempered and aged 94% alloy can therefore be used in the manufacture of table silver, which then has a Brinell hardness of about 110, a tensile strength of 50 kg./mm.², an extension of 5%, and an elasticity sufficient for practical use.—P. W. R.</i>			
ASB. 554 DEVELOPMENTAL LITERATURE CLASSIFICATION			
SOURCE NO.		SOURCE NO.	
12000 MAY 1957 301		001101 ONE ONE ONE	

137, 200 (100 copies) PROCESSED AND COMPLETED INDEX

Am

PRELIMINARY (J.) Phytophthora stem and tip blight of Citrus seedlings.
 —Reprinted from *Hinder*, ix, 6-7, 23 pp., 9 figs., 1936.
 In the winter of 1933 sweet lime [*Citrus limetta*] seedlings in Palestine developed a brown or black blight, usually beginning at the growing point and spreading to the leaves and main stem. Sometimes it started lower down the stem, spreading first to the lower leaves and later to the higher ones. Usually, but not invariably, the root and root-collar remained unaffected. The infected material showed the presence of *Phytophthora parasitica* and *P. citrophthora* [cf. *R.A.M.*, xv, p. 575] (rarely found together) and, occasionally, of two unidentified species of *Phytophthora*.

Inoculations of wounded and unwounded sweet lime and sour orange seedlings with isolations of *P. parasitica* and *P. citrophthora* gave negative results, though successful infection was obtained on the fruits. In attempts to secure infection through soil, 100 sweet lime seeds from healthy fruits were sown in pots on sterilized soil, inoculated with the two organisms. Of the two cultures of *P. citrophthora* used one gave a small and the other a high percentage of healthy seedlings, and a similar result was obtained with *P. parasitica*; this variation in virulence of the cultures is thought to be due to attenuation. The results of the inoculation experiments indicate that a large part of the seeds from

Wm

ASD-SLA METEOROLOGICAL LITERATURE CLASSIFICATION

137, 200 (100 copies) 137, 200 (100 copies) 137, 200 (100 copies)

fruit infected with *P. citrophthora* or *P. parasitica* is killed inside the fruit, that many of the remainder rot in the earth before germinating, and some become infected shortly after germination. Observations showed that sour orange is highly resistant to *Phytophthora* infection.

Control measures recommended are the use of seed from whole, healthy fruits picked from the tree, disinfection of the seed-bed soil with a 1 in 100 formaldehyde solution, treatment of the seed with napalun or ceresan 1 in 1,000 for 30 minutes, the use of cold seed-beds of low humidity, and spraying the seedlings within a week after germination with 0.5 per cent. Bordeaux mixture, the application being repeated at double strength 10 days later. All infected seedlings should be removed.

RAUTU, R., chim; HOBINCUI, A., ing.; SPORN, A., dr.; DUMITRESCU, M., chim.;
PERLEA, A., ing.

Determining the valuation and control criteria of high and low
pressure polyethylene and polystyrene. Ind alim anim 11 no.1:
16 - 19 Ja'63.

BERCU, Adrian, ing.; PERLEA, Maria-Ana, ing. (Bucuresti)

Modern trends in micromotor impregnation technology.
Electrotehnica 12 no.5:182-189 My'64.

1. Head of the Laboratory, Research and Electrical Engineering Planning Institute, Bucharest (for Bercu).
2. Researcher, Research and Electrical Engineering Planning Institute, Bucharest (for Perlea).

FOKAREV, Yu.N. (Leningrad, ul. Skorokhodova, d.32/12, kv.46); DEGTYAREVA,
E.Ya.; PERLEY, L.I.

Effect of artificial blood circulation on the regular elements of the
blood in experiment and in the clinic. Grud. khir. 6 no.2:44-47 Mr-Ap
'64. (MIRA 18:4)

1. Gosptal'naya khirurgicheskaya klinika (zav. - chlen-korrespondent
AMN SSSR prof. F.G.Uglov) I Leningradskogo meditsinskogo instituta
imeni Pavlova.

ACCESSION NR: AP4034468

S/0138/64/000/004/0001/0006

AUTHORS: Radchenko, I. I.; Bashkatov, T. V.; Fisher, S. L.; Rabinerzon, M. A.;
Perminov, A. M.

TITLE: Improved production of butadiene-methylstyrene (styrene) rubbers

SOURCE: Kauchuk i rezina, no. 4, 1964, 1-6

TOPIC TAGS: rubber polymerization, styrene rubber, butadienemethylstyrene rubber,
iron trilon ronalite, rubber resin emulsifier, peroxide rubber initiator, latex
coagulation, granular rubber, tape rubber, molecular weight distribution, rubber
SKS 30ARK, rubber SKS 30ARKM 27

ABSTRACT: Recent progress in the production of butadiene-methylstyrene (styrene)
(BMS) rubber is reviewed. The use of the iron-trilon-rongalite activator complex
resulted in an average 30-35% increase in the polymerization rate, and the appli-
cation of more active initiators could bring further improvement. Data are
presented on the effect of various fractions of resin on the BMS polymerization
rate. The purified product was found to act as an accelerator, while the
impurities exhibited inhibitory properties. The role of soaps as emulsifiers is

Card 1/2

ACCESSION NR: AP4034468

discussed, and the importance of a properly conducted coagulation process of the latex is stressed. The effect of neutral salts and acids is explained, and the advantage of obtaining a granular type BMS polymer is emphasized. A flow sheet and a description of the coagulation process in the manufacture of rubber SKMS-3OARKM-15 is given. The physicommechanical properties of this rubber and of experimental rubbers SKS-3OARK and SKS-3OARKM-27 are presented. The distribution of fractions of various molecular weights in the last two rubbers was studied by means of ultracentrifugal sedimentation. It was found that these rubbers were nearly identical in some physicommechanical properties with the foreign-made Europrene 1500 and 1712. Orig. art. has: 3 tables and 6 charts. ✓

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Iobedeva (All-Union Scientific Research Institute of Synthetic Rubber)

SUBMITTED: 00

DATE ACQ: 13May64

ENCL: 00

SUB CODE: MT

NO REF SOV: 004

OTHER: 003

Card 2/2

RAUTU, R., chim.; HOBINCU, A., ing.; SPORU, A., dr.; DUMITRESCU, M., chim.;
PETROVICI, C., ing.; PERLEA, M., ing.

Determining the valuation and control criteria for hard and
plasticized polyvinyl chloride. Ind alim anim 11 no. 2:50-53,
57 F*63.

Perlen, M.

PERLEN, M.

PEROVICH, Yolanda, 1900, R., PERLEN, M.

Institute of Hygiene and Public Health of the Rumanian People's Republic. Section of Alimentation Hygiene. (Institutul de Igiena si sanatate publica al R.P.R. Sectia de Igiena a alimentatiei) - (for all)

Bucharest, Igiena, Vol XII, No 1, Jan-Feb 63, pp 27-32.

"The Advantages of Iodinating Salt with Alkaline Iodates."
(Paper read on 17 May 1960 at the Scientific Session of the Institute of Endocrinology.)

(3)

RUMANIA

PERLEA, R., Dr, Lt-Col, and POPPA, C., Dr [affiliation not given]

"The Concomitant Preparation of Gamma Globulin and Albumin from Human Serum."

Bucharest, Revista Sanitara Militara, Vol 62, No 2, Mar-Apr 66, pp 353-357.

Abstract: The authors report on the experimental preparation of gamma globulin and albumin from the same serum. The method involves preparation of the gamma globulin by fractionation with Rivanol; the resulting precipitate is then dissolved and used for the separation of albumin. The method is relatively simple and yields 40 to 50 percent of the albumin present in the original serum.

Includes one table and 18 references, of which one Rumanian, one Russian and 16 Western. -- Manuscript submitted 11 August 1965.

1/1

- 15 -

L 30150-46

ACC

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110002-0"

SOURCE CODE: RU/0012/65/061/001/0109/0112

AUTHOR: Perlea, R. (Doctor; Lieutenant colonel); Poppa, C. (Doctor)

ORG: none

TITLE: Changes in the factors of the prothrombin complex in the blood of cadavers

SOURCE: Revista sanitara militara, v. 61, no. 1, 1965, 109-112

TOPIC TAGS: blood, hematology

ABSTRACT: The authors studied the changes in activity of the prothrombin complex after sudden death, as part of their study of the second phase of the coagulation of the blood of animal cadavers. [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 019

Cord 1/1 CC

BALLY, R.J.; PERLEA, V.

Statistical synthesis of geotechnical characteristics applied to
the loess of Galati location. Studi geotehn fund constr hidro
7:147-253 '64.

COUNTRY :
CATEGORY :

ASS. JO. R. : BIRMINGHAM, No. 1982, No.

AIRPORT :
1982 :
FILE :

DATE. PUB. :

ABSTRACT :

CARD:

147

BALLY, R. J., cand. st. tehn.; ANTONESCU, I., ing.; PERLEA, V., ing.

Determinant condition for the occurrence of settling through
moistening of loess soils. Hidrotehnica 7 no.12:444-446
D '62.

BALLY, R.J., cand. st. tehn.; ANTONESCU, I., ing.; PERLEA, V., ing.;
PANAIU, E., geolog

Behavior of irrigation canals on loessal soils. Meteorologia
hidrol gosp 7 no.2:139-146 '62.

PERLESHINA, A.P.

Results of an experimental investigation of the thermoelectro-
motive force in thermistors. Inzh.-fiz.zhur. no.4:119-122 Ap
'60. (MIRA 13:8)

1. Energeticheskiy institut im. G.M. Krzhizhanovskogo, Moskva.
(Thermistors)

BALLY, R. J., candidat in stiinte tehnice;
ANTONESCU, I., ing.; PERLEA, V., ing., cercetator;

Behavior of an irrigation system tested on loess.
Studii geotehn fund constr hidro 6 45-78 '63

PERLEY, Ye.M., inzh.; RUKAVTSEV, A.M., inzh.

Piles tamped by the method of vibration with widened pyriform
pivots. Biul. tekhn. inform. po stroi. 5 no.6:16-17 Je '59.

(MIRA 12:10)

(Concrete piling)

PERLEY, Ye.M. (Leningrad); RUKAVTSOV, A.M. (Leningrad)

Using vibration methods in casting concrete filled pedestal
piles. Ozn.fund.i mekh.grun. 2 no.2:21-22 '60. (MIRA 13:8)
(Concrete piling)

LAVRINOVICH, Ye.V., kand. tekhn. nauk; GOLITSYNSKIY, D.M., inzh.;
PERLEY, Ye.M., inzh.; RUDIN, Ye.I., inzh.

Congregating vertical seams of cylindrical shells. Transp.
stroit. 14 no.3:45-48 Mr '64. (MPA 17.6)

PERLEY, Ye.M.

Effect of vibration on the force of the external friction of
soils. Osn., fund. i mekh. gran. 6 no.3:5-8 '64 (MIRA 17:7)

PERLEY, Ye.M., (Leningrad); RUKAVTSOV, A.M. (Leningrad)

Method of making separate static tests of cylindrical shell
foundations for vertical loads. Osn., fund. i mekh. grun.
4 no.3:10-11 '62. (MIRA 15:7)
(Foundations--Testing)

SAVINOV, O.A., doktor tekhn.nauk; BODROV, G.D., kand.tekhn.nauk; BRAUDE, F.G.,
inzh.; PERLEY, Ye.M., inzh.; RUKAVTSOV, A.M., inzh.

Making and assembling foundation shells. Mont. i spets. rab. v. stroi.
22 no.12:19-21 D '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'kiy institut gidrotekhnicheskikh
i sanitarno-tekhnicheskikh rabot i UMR-325 tresta Sevzapmorgidrostroya.
(Concrete panels) (Concrete footings)

PERLEY, Ye.M., inzh.; RUKAVTSOV, A.M., inzh.

Constructing a slip on precast cylindrical shell foundations without
crosspieces. Transp. stroi. 10 no.11:21-23 N '60. (MIRA 13:11)
(Ships--Launching)
(Precast concrete construction)

PERLEY, Ye.M., inzh.; RUKAVTSOV, A.M., inzh.

Bearing capacity of reinforced concrete well piles. Nov. tekhn.
mont. i spets. rab. v stroi. 21:22-23 Je '59. (MIRA 12:8)

1. Nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-
tekhnicheskikh rabot i Upravleniye nachal'nika rabot No.325 Baltspets-
gidrostroya.

(Piling (Civil engineering))

PERLEY, Ye.M. (Leningrad); RUKAVTSOV, A.M. (Leningrad)

Using vibration-driven concrete piles for foundations of
apartment houses. Osn., fund. i mekh. grun. 3 no.3:23-24 '61.

(MIRA 14:7)

(Concrete piling) (Apartment houses)

BUKAVTSOV, Aleksandr Mikhaylovich; PERLEY, Yevgeniy Mironovich; SAVINOV,
O.A., kandidat tekhnicheskikh nauk, nauchnyy redaktor; ROTENBERG,
A.S., redaktor izdatel'stva; PUL'KINA, Ye.A., tekhnicheskiy redaktor

[Experience in using vibrating pile drivers in the construction
industry] Opyt primeneniya vibropogruzhatel' v promyshlennom
stroitel'stve. Leningrad, Gos.izd-vo lit-ry po stroit. i arkhitekt.
1957. 76 p. (MIRA 10:7)

(Piling (Civil engineering))

SEKRETO, A.Ya., inzhener; PERLEY, Ye.M., inzhener.

Floating device for sinking slanting reinforced concrete piles
from the side of a pontoon. Sber.mat.o nov.tekh.v stroi.17
no.10:7-10 '55. (MLRA 9:2)
(Piling (Civil engineering))

ABELEV, Yu.M., doktor tekhn. nauk, prof.; ABLEEV, M.Yu., inzh.;
 BAKHOLDIN, B.V., kand. tekhn. nauk; BEREZANTSEV, V.G.,
 doktor tekhn. nauk, prof.; VYALOV, S.S., doktor tekhn.
 nauk; GODES, E.G., inzh.; GORBUNOV-POSADOV, M.I., doktor
 tekhn. nauk, prof.; DALMATOV, B.I., doktor tekhn. nauk,
 prof.; DOKUCHAYEV, V.V., kand. tekhn. nauk; KRUTOV, V.I.,
 kand. tekhn. nauk; KSENOFONTOV, A.I., kand. tekhn. nauk;
 MARIUPOL'SKIY, G.M., kand. tekhn. nauk; MORARESKUL, N.N.,
 inzh.; PERLEY, Ye.M., inzh.; SAVINOV, O.A., doktor tekhn.
 nauk; SIDOROV, N.N., kand. tekhn. nauk; SMORODINSKIY,
 N.N., kand. tekhn. nauk; SOKOLOV, N.M., doktor tekhn. nauk;
 FADKIN, A.Ya., inzh.; SHASHKOV, S.A., kand. tekhn. nauk;
 MEYKOV, M.L., inzh.; YAROSHENKO, V.A., kand. tekhn. nauk,
 [deceased]; KHALIZEV, Ye.P., kand. tekhn. nauk, nauchn. red.

[Manual for the designing of industrial plants, apartment
 houses, and public buildings and structures; foundations]
 Spravochnik proektirovshchika promyshlennyykh, zhilykh i
 obshchestvennykh zdaniy i sooruzheniy; osnovaniya i funda-
 menty. Leningrad, Stroiizdat, 1964. 268 p.

(MIRA 18:1)

X/18

BLATTNY (C.) & PERLMUTER (K.). Bor a *malokveta* *hollada* *Bevy* *hromad.* [Boron and heart rot of fodder Beet.]—*Ochr. Ros.*, 19-20, 10-11, pp. 26-28, 1947. [Russian summary. Received July, 1950.]

Fodder beets growing on alluvial, acid soils in southern Bohemia, Czechoslovakia, develop severe heart and dry rot due to extreme boron deficiency [*R.A.M.*, 22, p. 90; 23, p. 590]. Experiments conducted during 1943-45 demonstrated that borax applications (15 kg. per ha.) completely eliminated the trouble, which affected 61 to 100 per cent. of the crop. The yields from treated plots were increased by 35 to 160 per cent. The weight of roots from untreated plots even if they showed no symptoms was about one fifth lower than that from treated, and their storage life about one month shorter. Opium poppies interplanted with beet also suffered from boron deficiency, the seed yields being reduced in some cases by one quarter.

It is recommended that the boron content of soils be examined to determine their suitability for fodder beet and sugar beet production, and their reactions to boron treatment. Fertilizers used for beet and poppy in deficient soils should contain boron. It is suggested that certain celery rots, regularly accompanied by *Phoma oleracea* (*ibid.*, 23, p. 433), may also be due to boron deficiency.

¹
SKIBITSKIY, M.S., inzh.; PERLI, G.I., inzh.

Gas evaporators fed by atmospheric-type deaerators. Energetik
9 no.6:4-5 Je '61. (MIRA 16:7)

(Boilers)

(Air preheaters)

PERLI, G.I., inzh.; SKIBITSKIY, M.S., inzh.

Use of thermal deaerators for heating. Energetik 9 no.2:14-15
F '61. (MIRA 16:7)

(Electric power plants--Heating and ventilation)

PERLI, G.I., inzh.; SKIBITSKIY, M.S., inzh.; MAKAROV, G.S., inzh.

Experience in the operation of regenerative air preheaters.
Energomashinostroenie 7 no.3:35-37 Mr '61. (MIRA 16:8)

(Boilers--Firing) (Air preheaters)

PERLI, G.I., inzh.; SKIBITSKY, M.S., inzh.

Improvement of thermal deaerators. Elek.sta. 33 no.1:24-26 Ja '62.
(MIRA 15:3)

(Feed-water purification)

PERLI, Georgiy Isaakovich; KACHKIN, V.G., inzh., red.; POMICHEV,
G.A., red. izd-va; GVIRTS, V.L., tekhn. red.

[Experience in gas supply and utilization in the boiler room
of an industrial heat and electric power plant] Opyt priema i
ispol'zovaniia gaza v kotel'noi zavodskoi TE's. Leningrad,
1962. 23 p. (Leningradskii Dom nauchno-tekhnicheskoi propa-
gandy. Obmen peredovym opytom. Seriya: Energetika, no.2)
(MIRA 15:3)

(Boilers--Firing)

(Gas as fuel)

PERLI, P.D.; FORTNOV, F.G.; PETERSON, M.P.; SKARD, Ya.V.; SHUL'TS, I.,
red.; BITAR, A., tekhn. red.

[Treatment of patients at the health resorts of Latvia] Le-
cheniye bol'nykh na kurortakh Latviiskoi SSR, 1963. 213 p.
(MIRA 17:3)

FERLI, P. D.

36396 O biologicheskoy mekhanizme fitofarmakologicheskoy reaktsii/ Priroda,
1949, No. 11, S. 54-54

SO: Ietopis' Zhurnal'nykh Statey, No. 49, 1949

PERLI, P. D.

USSR/Medicine - Nocturia
Drugs

Aug 49

"Use of Phenamine and Eserine for Treating Nocturia,"
P. D. Perli, Leningrad, 1/2 p

"Sov Med" No 8

PA 152752
Fact that a group of boys (14-17 years old) with nocturia indicated complete sleep more than normal persons gave rise to the hypothesis that artificial inhibition of complete sleep would recondition the alert state and awaken the sleeper. Described treatment with phenamine and eserine benefited or cured majority of these cases. However, the intensity of

FDD

152752

USSR/Medicine - Nocturia (Contd)

Aug 49

sleep remained the same even after treatment, indicating that there seems to be no connection between sleep and nocturia.

FDD

152752

31040. FERLI, P. D.

K patogenezu i terapii nochnogo nederzhaniya mochi. Voprosy pediatrii
i okhrany materinstva i detstva. 1949, vyp. 4, s. 51-53

PERLI, P.D.

"The Biological Mechanism of Phytophar-
macological Reactions," Priroda, No. 11,
1949.

PERLI, P.D.

"Pathogenesis and Therapy of Nocturia," Vop.

Ped. i. Vkhran. Mater. i. Det., 17, No. 4,

1949, Leningrad, -1949-

PERLI, P.D.

25281 PERLI, P.D. Opyt Lecheniya Ruchnogo Noderzhaniya Kochi Fenamonom
I Ezerinom. Sov. Meditsina, 1949, No. 8, S. 35-15. Onkologiya

SO: Letopis' No. 33, 1949

N/5
644.62
.ph

PERLI, PETR DAVIDOVICH

Parkinsonizm; Analiz Reflektornykh Dvigatel'nykh Rasstroystv (Parkinsons' Disease; An Analysis of Disorders of the Reflexes) Riga, Izd-Vo Akademii Nauk Latvyskoy SSR, 1956. 217 p. Diagr., Tables. At head of Title: Adademiya Nauk Latvyskoy SSR. Institut Eksperimental' Noy Meditsiny.

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. General Problems.

T

Abstr Jour : Ref Zhur Biol., No 6, 1959, 26949

Author : Perli, P.D.

Inst : Institute of Experimental Medicine, AS Latvian SSR

Title : The Role of Irritation Stimulation in Pathogenesis of
Some Neurological Syndromes.

Orig Pub : Tr. In-ta eksperim, med. AN LatvSSR, 1957, 13, 23-39

Abstract : Registration of movement of extremities, contraction and
biological currents of agonist and antagonist muscles in
patients with parkinsonism demonstrated that weakness of
tendon reflexes, along with high muscular tonus, are ex-
plained by means of simultaneous contraction of flexors
and extensors as a result of radiation of stimulation on
centers of antagonists. Extrapyramidal rigidity may be

Card 1/2

USSR/Human and Animal Physiology (Normal and Pathological).
Nervous System. Pain.

T-10

Abs Jour : Ref Zhur - Biol., No 16, 1958, 75159

Author : Perli, P.D.

Inst : Institute of Experimental Medicine of the AS Latvian SSR.

Title : On the Pathogenesis and Therapy of Headaches During High
Blood Pressure.

Orig Pub : Tr. In-ta Eksperim. med. AN LatvSSR, 1957, 13, 117-125.

Abstract : N⁰ abstract.

Card 1/1

- 95 -

KAZHINSKIY, B.; PERLI, S.

Single-blade wind wheel. Radio no. 4:18-21 Ap '56. (MLRA 9:7)
(Windmills)

PERLI, S. B.

Technology

(High-speed windmills), Moskva, Gosenergoizdat, 1951

9. Monthly List of Russian Accessions, Library of Congress, November 1953. 2Unclassified.

PERLI, S.

USSR/ Electricity - High-speed Governor

Card : 1/1

Authors : Perli, S., and Kazhinskiy, B.

Title : Governor for a high-speed windmill

Periodical : Radio, No. 4, 24 - 26, April 1954

Abstract : A governor for a high-speed wind-driven generator is described. The governor was designed to control the speed of windmill blades. Diagrams of the regulator and its parts, and a reference table are included.

Institution :

Submitted :

PERLI, S
AUTHOR: K. Aleksakhin

107-9-13/53

TITLE: The Wind-Driven Generator (Vetrovoy agregat)

PERIODICAL: Radio, 1957, # 9, p 16-19 (USSR)

ABSTRACT: The article contains a description of a high-speed wind mill of simple design, driving a d.c. generator of 50-750 w capacity at wind velocities varying from 3 to 12-15 meters per second.

In regions, where the average wind speed is rather low (less than 3 m per second), the wind mill can easily be adapted to these conditions with a slight modification.

The operation of the automatic protective device against storm, and the stopping mechanism of the same, utilized in this wind mill, are described in detail in the book of B. Kazhinskiy and S. Perli "Home-Made Electric Wind Power Plant" ("DOSAAF" Edition, 1956)

The d.c. generators "PH-10" and "PH-28" may be used. It is not advisable to utilize automatic or tractor generators, resp. the "TC-1000" generator, because the charging of storage-batteries will then be impossible at slow rotating speeds.

The wind mill consists of nine main parts shown by the figure at the top of this article. Its constructional details

Card 1/2

The Wind-Driven Generator

107-9-13/53

and dimensions are given in the text, as well as in figures 1 and 2.

The article contains 3 figures and 1 Russian reference.

AVAILABLE: Library of Congress

Card 2/2

PERLI, S.; KAZHINSKIY, B.

Governor for high-speed wind motors. Radió no. 4:24-26 Apr '54.
(MLRA 7:4)

(Windmills)

PERLI, S.H.; MAKHORIN, V.M.

Technical consultation. TSement 29 no.4:22 J1-Ag '63.
(MIRA 16:11)

1. Yuzhgiprotsement.